

Postgraduate Certificate Web Project Management and Organization



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- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/pk/information-technology/postgraduate-certificate/web-project-management-organization

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

A web project is the basis of any creation designed for the Internet and encompasses each of its development stages. In the development of web applications, it is common to find multifunctional teams, in which coordination and management take on a role as important as the technical aspects. For these reasons, TECH has created this 100% online Postgraduate Certificate, designed by experts with extensive experience in Software, Systems and Computing. Through a specific syllabus and cutting-edge didactic material, the student will be able to acquire the necessary skills to become the best Web Project Manager.



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You will coordinate any work team in charge of developing web applications thanks to this exclusive Postgraduate Certificate"

It is complicated to design a project from scratch and web applications are no exception. That is why, in recent years, the figure of the Web Project Manager has emerged, the person in charge of successfully developing this kind of work. In other words, this is a professional who ensures that processes are followed, objectives are met, deadlines are respected and the assigned budget is not exceeded, among other functions. Without this person in charge, companies would entrust projects to disorganized teams, obtaining little or no unprofitable results.

With this Postgraduate Certificate, the student will explore the different phases of a web project, from initial planning to final delivery, analyzing the key roles involved in each stage and the methodologies used in the industry. That is why this Postgraduate Certificate prepares the computer scientist for a DevOps profile, which combines development and operation capabilities.

However, putting a web application into production goes beyond its development. its development. With this Postgraduate Certificate, the student will master fundamental tasks such as version control, infrastructure management through code, or test and deployment automation. To this must be added the management of the project management after production start-up, including quality control, monitoring and resolution of incidents, cost review and planning of new releases.

This TECH Postgraduate Certificate is 100% online, which allows students to take it wherever and whenever they want, from the comfort of their own home. You will only need a device with internet access to access the contents of this Postgraduate Certificate and advance one step further in your career. With the innovative Relearning methodology, at the forefront of technology and education.

This **Postgraduate Certificate in Web Projects Management and Organization** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in Computer, Software, Systems
- ♦ The graphic, schematic and practical contents of the book provide theoretical and practical information on those disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies
- ♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ♦ Content that is accessible from any fixed or portable device with an Internet connection



It leads to the success of any web project, from online stores (e-Commerce) to more advanced and complex applications"

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Learn to lead and coordinate cross-functional teams when developing any web project"

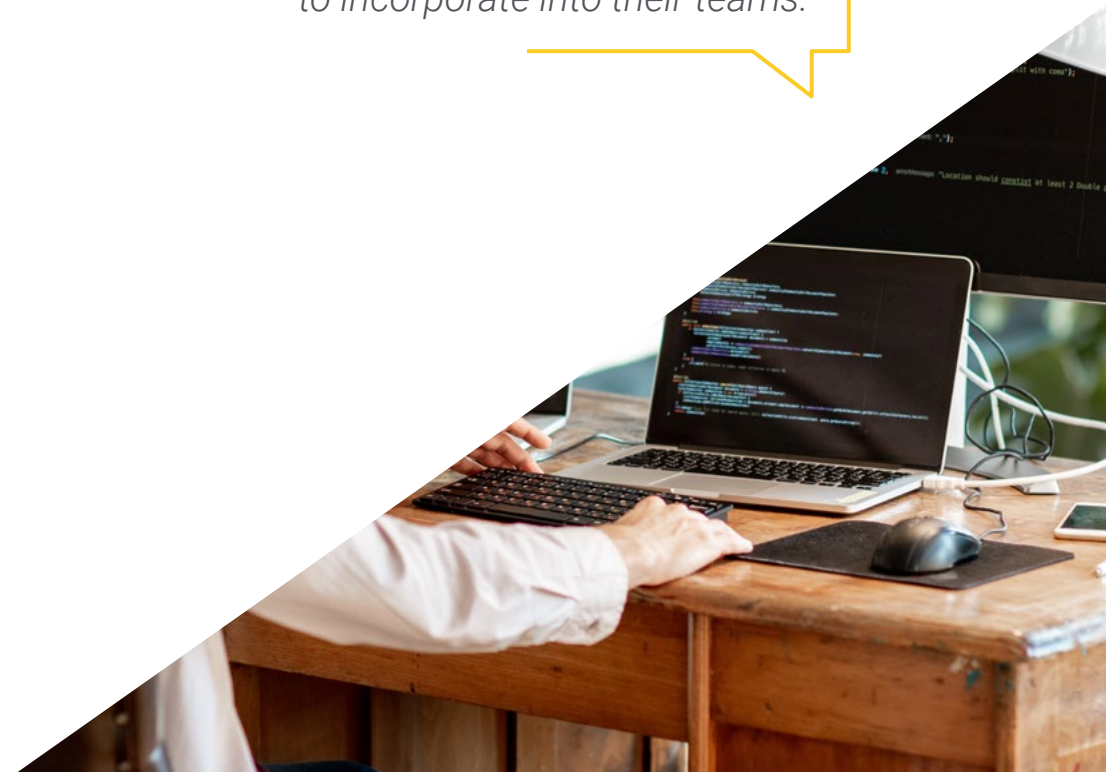
Delve into the different phases of a web project, from initial planning to final delivery.

Become the Web Project Manager that companies need to incorporate into their teams.

The program's teaching staff includes professionals from the sector who bring to this training the experience of their work, as well as renowned specialists from reference societies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide an immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

Being web applications a field that has evolved so much over the last years, the main objective of this Postgraduate Certificate is that the student is updated in the most relevant concepts of his profession with all the facilities. You will deepen in the key aspects of web project planning and acquire the most useful skills for the organization and coordination of development teams. All thanks to TECH's latest pedagogical technology, with the best didactic material and innovative multimedia content.



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*Specialize in Web Project Management
and Organization and work in the best
companies in the IT industry"*



General Objectives

- ♦ Generate specialized knowledge on advanced web architecture
- ♦ Create personalized experiences, monitor and monetize the use of the website
- ♦ Consolidate application design and development best practices with a project management that favors continuous iteration, integration and deployment
- ♦ Analyze in depth the aspects related to the security of web applications, with special applications, with a special focus on the most common attacks and the prevention, detection and mitigation prevention, detection and mitigation mechanisms
- ♦ Address security as one of the pillars of advanced web architectures
- ♦ Review The features and vendors, planning migration scenarios and incorporating new roles and processes into project management





Specific Objectives

- ♦ Analyze the web application development process and its methodologies
- ♦ Examine the DevOps working model and its implications
- ♦ Develop the mechanisms and solutions for code version control
- ♦ Specify the process of integration and continuous deployment of applications
- ♦ Establish the tasks of quality control and application maintenance
- ♦ Deepen the cost and release management in the web project



Reach your goals with the best didactic content and the guidance of a team of experienced professionals"

03

Course Management

TECH offers a complete and quality education for all. In this way, the student will acquire an exhaustive knowledge in the Web Project Management and Organization from the hand of prestigious professionals with extensive experience in Software, Systems and Computing. That is why this Postgraduate Certificate has been designed by a highly qualified team, offering the most cutting-edge tools for the graduate to obtain the best results.

With the guarantee of specializing in what they are passionate about and what will catapult them to professional success.



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*Acquire the fundamental knowledge to
advance your career with the support
of the best faculty in the world"*

Management



Dr. Pantaleón García del Valle, Eduardo

- Solutions Architect at Amazon Web Services (AWS)
- Solutions Architect at Liferay, Inc
- Technical Manager at Jungheinrich AG
- Senior Software Engineer and Team Manager at Liferay
- Project Manager at Protecmedia
- Organization and delivery of online technical webinars within the AWS Customer Proficiency Plan program
- Member of the Alumni Mentoring program at Carlos III University of Madrid, for career advice to students and recent graduates
- Graduated in Telecommunication Engineering from Carlos III University of Madrid
- PhD in Software, Systems and Computing from the Polytechnic University of Madrid
- Master's Degree in Computer Languages and Systems from the National University of Distance Education (UNED)
- Executive Data Science Specialization from Johns Hopkins University



Professors

Mr. López Mendoza, Marvin Roberto

- ♦ Computer Systems Engineer
- ♦ Senior Agile Coach, Manager Projects and Agile Chapter Lead at Cognizant
- ♦ Senior IT Consultant, Scrum Master, Tech Evangelist at Minsait
- ♦ QA Lead, Senior Team Lead and Scrum Master at Control Risks
- ♦ Senior QA Engineer at Smartmatic
- ♦ IT Project Manager at Blom Sistemas Geospaciales
- ♦ Computer Systems Engineer from the Technological University of Panama
- ♦ Master's Degree in Agile Product, Business and Technology Management from IEBS
- ♦ Master's Degree in Investment Project Formulation and Evaluation from the Latin University of Panama



A unique, key, and decisive educational experience to boost your professional development"

04

Structure and Content

The contents of the syllabus have been elaborated on the basis of the needs of the IT professional who wishes to specialize in the Web Project Management and Organization. Following the requirements proposed by the teaching team of this diploma of this Postgraduate Certificate, a study plan has been established with the best contents of the pedagogical market. The student will get the most out of the Postgraduate Certificate thanks to the innovative Relearning methodology, a repetition-based learning, which combines the study of real cases and the resolution of complex situations through simulations. You will also have access high-quality multimedia content, supplementary learning materials, detailed videos and interactive summaries.



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Advance quickly through the syllabus thanks to the Relearning methodology, which will allow you to integrate knowledge in a more natural and agile way"

Module 1. Web Project Management and Organization

- 1.1. Web Application Development Process
 - 1.1.1. Phases in the Developers Process
 - 1.1.2. Roles and organization in web development projects
 - 1.1.3. Collaborative web development
- 1.2. Collaborative development methodologies
 - 1.2.1. Agile Values and Principles
 - 1.2.2. Comparing Agile Methodologies: Scrum and Kanban
 - 1.2.3. Web project management tools
- 1.3. Development and operation work model (DevOps)
 - 1.3.1. Responsibilities
 - 1.3.2. Adopting a DevOps working model
 - 1.3.3. Other approaches: DevSecOps, DataOps, MLOps
- 1.4. Version Control
 - 1.4.1. Version Control Systems
 - 1.4.2. Benefits of version control
 - 1.4.3. Version control solutions: Github, Gitlab
- 1.5. Infrastructure as-Code (IaC)
 - 1.5.1. Infrastructure as-Code (IaC)
 - 1.5.2. Infrastructure management patterns
 - 1.5.3. IaaS tools and frameworks: Terraform
- 1.6. Continuous Integration and Deployment (CI/CD)
 - 1.6.1. Integration Strategies
 - 1.6.2. Deployment and rollback strategies
 - 1.6.3. Solutions for CI/CD pipelines
- 1.7. Quality Assurance (QA)
 - 1.7.1. Test planning
 - 1.7.2. Types of Tests
 - 1.7.3. Test automation and execution





- 1.8. Maintenance and troubleshooting
 - 1.8.1. Service Level Objectives (SLOs) and Service Level Indicators (SLIs)
 - 1.8.2. Incident management and post-incident analysis
 - 1.8.3. Incident management tools
- 1.9. Cost management in web projects
 - 1.9.1. Cost factors in web projects: infrastructure, development, operations
 - 1.9.2. Cost Estimation
 - 1.9.3. Cost control and optimization
- 1.10. Release management in web projects
 - 1.10.1. Pre-release phases: MVP, Alpha, Beta
 - 1.10.2. Production release planning
 - 1.10.3. Generation of new versions and compatibility

“*Study with all the facilities thanks to the Relearning methodology, based on repetition*”

05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career*”

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

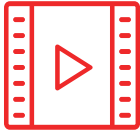
Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



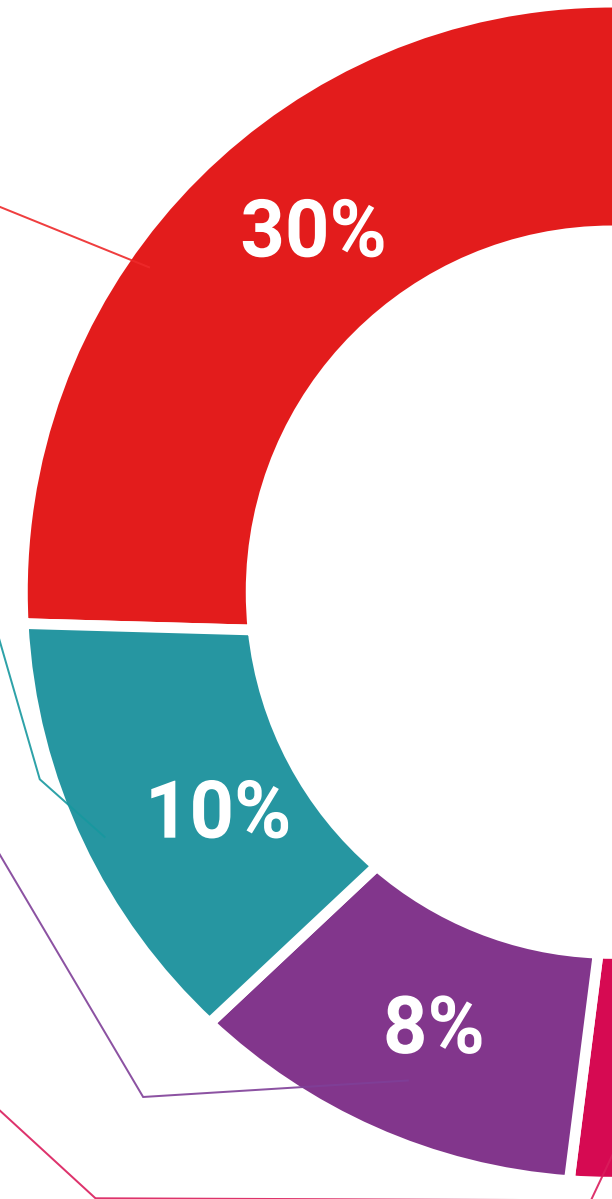
Practising Skills and Abilities

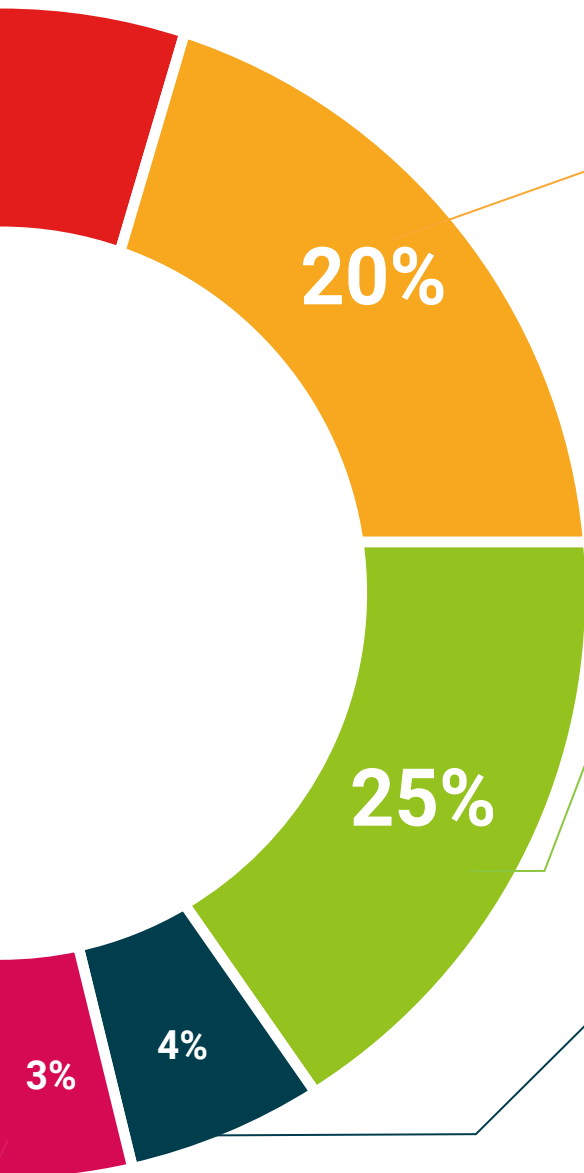
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



06 Certificate

The Postgraduate Certificate in Web Project Management and Organization guarantees, in addition to the most rigorous and updated training, the access to a diploma issued by TECH Technological University.



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Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This **Postgraduate Certificate in Web Project Management and Organization** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Web Project Management and Organization**

Official N° of Hours: **150 h.**



future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development language
virtual classroom



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